

What is claimed is:

- 1 1. A computer system, said computer comprising:
 - 2 a bus;
 - 3 a central processing unit;
 - 4 computer system memory, said computer system memory being connected to said
 - 5 central processing unit; and
 - 6 a memory management mechanism stored in said computer system memory, said
 - 7 memory management mechanism adjusting transaction priority to decrease transaction
 - 8 time and thereby permit more efficient journal space utilization.
- 1 2. The computer system of claim 1 wherein said memory management mechanism
 - 2 monitors elapsed time of outstanding transactions and selects an oldest transaction
 - 3 therefrom, said memory management mechanism then adjusting a priority of said oldest
 - 4 transaction so that said oldest transaction is able to complete processing more quickly.
- 1 3. The computer system of claim 2 wherein said memory management mechanism is a
 - 2 commit control mechanism.
- 1 4. The computer system of claim 2 wherein said memory management mechanism
 - 2 continually monitors elapsed time of said outstanding transactions and selects therefrom a
 - 3 current oldest transaction for which to adjust priority such that more than one transaction
 - 4 can operate with an adjusted priority.
- 1 5. The computer system of claim 2 wherein said transaction involves more than one job
 - 2 and wherein one of said more than one job executes on a first computer system and
 - 3 another of said jobs executes on a second computer system.

1 6. A program product, said program product comprising:

2 signal bearing medium; and

3 a memory management mechanism stored in said computer system memory, said
4 memory management mechanism adjusting transaction priority to decrease transaction
5 time and thereby permit more efficient journal space utilization.

1 7. The program product of claim 6 wherein said memory management mechanism
2 monitors elapsed time of outstanding transactions and selects an oldest transaction
3 therefrom, said memory management mechanism then adjusting a priority of said oldest
4 transaction so that said oldest transaction is able to complete processing more quickly.

1 8. The program product of claim 6 wherein said memory management mechanism is a
2 commit control mechanism.

1 9. The program product of claim 6 wherein said memory management mechanism
2 continually monitors elapsed time of said outstanding transactions and selects therefrom a
3 current oldest transaction for which to adjust priority such that more than one transaction
4 can operate with an adjusted priority.

1 10. The program product of claim 6 wherein said oldest transaction involves more than
2 one job and wherein one of said more than one job executes on a first computer system
3 and another of said jobs executes on a second computer system.

1 11. A computer implemented method, said method comprising the steps of:

2 receiving a journal related request; and

3 adjusting transaction priority to decrease transaction time and thereby permit more
4 efficient journal space utilization.

1 12. The method of claim 11 wherein said adjusting step further comprises:

2 monitoring elapsed time of outstanding transactions;

3 selecting an oldest transaction from said outstanding transactions; and

4 adjusting a priority of said oldest transaction so that said oldest transaction is able to
5 complete processing more quickly.

1 13. The method of claim 12 wherein said monitoring step comprises continually

2 monitoring elapsed time of said outstanding transactions and wherein said selecting step

3 comprises selecting a current oldest transaction from said outstanding transactions such

4 that more than one transaction can be adjusted to operate with an adjusted priority in said
5 adjusting step.

1 14. The method of claim 11 wherein said oldest transaction involves more than one job

2 and wherein one of said more than one job executes on a first computer system and

3 another of said jobs executes on a second computer system.

1 15. A computer implemented method, said method comprising the steps of:

2 receiving a journal related request for a journal;

3 adjusting transaction priority for a specific transaction to decrease transaction time of
4 said transaction; and

5 deallocating memory associated with said specific transaction upon completion of said
6 specific transaction.

1 16. The method of claim 15 wherein said adjusting step further comprises:

2 monitoring elapsed time of outstanding transactions;
3 selecting an oldest transaction from said outstanding transactions; and
4 adjusting a priority of said oldest transaction so that said oldest transaction is able to
5 complete processing more quickly.

1 17. The method of claim 16 wherein said monitoring step comprises continually
2 monitoring elapsed time of said outstanding transactions and wherein said selecting step
3 comprises selecting a current oldest transaction from said outstanding transactions such
4 that more than one transaction can be adjusted to operate with an adjusted priority in said
5 adjusting step.

1 18. The method of claim 15 wherein said oldest transaction involves more than one job
2 and wherein one of said more than one job executes on a first computer system and
3 another of said jobs executes on a second computer system.